

AT Data_Command set

General Command

A/	Repeat the last executed AT command Do not precede A/ with AT or follow with ENTER.
AT	Attention Characters 'AT' character pairs always at the beginning of each command line, except 'A/', which is to repeat the last executed AT command. Note: The following commands always have to precede with 'AT' attention character pair, if it is the first command in the command line.
A	Manually answer incoming call
D	Dial (Originate a Call) The following modifiers can be used in the dial string: 0-9,#,* Dialing digits. Touch Tone dial characters P Pulse dialing T Touch Tone dialing W Wait for second dial tone , Pause (programmable by S8) ^ Enable 1300 Hz calling tone ! Flash (delay 500 ms) ; Return to command mode
DS=n	Dial stored number Dials one of three telephone numbers (n = 0,1 or 2) which is stored in the modem's nonvolatile memory via AT&Zn=x command.
En	Command Echo
E0	Disables command echo
E1*	Enables Command echo
+++	Default Escape Character To switch from data mode to command mode, you can pause one second and type '+++'. Do not follow with carriage return. The default ASCII character '+' is decimal 43. You can change register S2 to any value from 0 to 255. Values greater than 127 disable the escape feature and prevent you from returning to the Command Mode. Please refer to S2 and S12.
Hn	Hook control
H0*	Modem is on-hook (disconnect from line)
H1	Modem is off-hook (connect to line)
In	Identification
I0*	Display product-identification code
I1	Factory set
I2	Internal memory test
I3	Firmware version 1
I4	Firmware version 2
Ln	Volume Control
L0	Speaker volume off
L1	Low speaker volume
L2*	Medium speaker volume

L3	Loud speaker volume
Mn	Speaker Control
M0	Speaker off
M1*	Speaker on until carrier detected
M2	Speaker always on
M3	Speaker on until carrier detected and off while dialing
Nn	Auto mode Selection
N0	Disable auto mode. Modem connect speed is fixed according to AT*Nn setting.
N1*	Enable adaptive connect speed (always connect at the highest compatible speed).
On	Return to Data Mode Selection
O0*	Return to Data Mode
O1	Return to Data Mode and initiate a retrain
Qn	Modem Response Selection
Q0*	Modem sends responses
Q1	Modem does not sends responses
Sr?	Reads Register r Value. r is an applicable number between 0 to 97.
Sr=n	Set Register r to Value n r is an applicable number between 0 to 97, n is an applicable number between 0 to 255.
Un	V.34 Control
U0	Disable V.34 when AT*N1 - AT*N6
U1	Enable V.34
U2	Enable V.34 aggressive connection, which will connect the ultimate speed, but with penalty of data integration.
Vn	Responses Selection
V0	Enable numeric responses
V1*	Enable verbose (text) responses
Xn	Response Set Selection (See table 1)
X0	Report basic call progress result codes.
X1	Report basic call progress result codes and connections speeds, disable dial tone and busy tone detection.
X2	Report basic call progress result codes and connections speeds, disable busy tone detection only.
X3	Report basic call progress result codes and connections speeds, disable dial tone detection only.
X4*	Report all call progress result codes and connection rate.
Yn	Long Space Disconnect Selection
Y0*	Disables long space disconnect. Modem does not send or respond to long space disconnect.
Y1	Enables long space disconnect. Modem sends break signal for 4 seconds before disconnect or will disconnect after receiving 1.6 seconds of break from remote modem.
Zn	Reset and Profile Retrieve Selection

Z0*	Reset modem and retrieve active configuration profile from stored configuration profile 0.	&Yn	Selection of the Active Configuration After Power-On or Reset
Z1	Reset modem and retrieve active configuration profile from stored configuration profile 1.	&Y0*	Retrieves configuration profile 0 as the active configuration profile when the Modem is turned on or is reset.
&Cn	Carrier Output Selection	&Y1*	Retrieves configuration profile 1 as the active configuration profile when the Modem is turned on or is reset.
&C0	Keep Data Carrier Detect (DCD) signal always ON.	&Zn=x	Store Telephone Numbers in Nonvolatile Memory. Stores three telephone numbers, 31 characters each, in the non-volatile memory. Uses ATDS=n to dial or to use AT&M2 for synchronous data mode.
&C1*	Set Data Carrier Detect (DCD) signal according to remote modem data carrier signal.	*Gn	Adaptive Handshake Selection
&Dn	Data Terminal Ready (DTR) Signal Handling	*G0	Disables adaptive protocol handshake
&D0	Modem ignores the Data Terminal Ready signal from host.	*G1*	Enables adaptive protocol handshake
&D1	Modem returns to Command Mode and asynchronous operation following an ON-to-OFF Data Terminal Ready transition.	*Nn	Connect Speed Selection
&D2*	Modem hangs up, returns to the Command Mode, and prepares for asynchronous operation following an ON-to-OFF Data Terminal Ready transition.	*N0	Selects connect speed 1200bps
&D3	Modem resets following an ON-to-OFF Data Terminal Ready transition and retrieves modem default configuration (Same as ATZ).	*N1	Selects connect speed 2400bps
&F	Load Modem Factory Default Configuration Restores the modem to the default operating characteristics.	*N2	Selects connect speed 4800bps
&Gn	Guard Tone Selection	*N3	Selects connect speed 7200bps
&G0*	Disable guard tone	*N4	Selects connect speed 9600bps
&G1	Enable 550 Hz guard tone	*N5	Selects connect speed 12000bps
&G2	Select 1800 Hz guard tone	*N6	Selects connect speed 14400bps
&Pn	Make/Break Ratio	*N7	Selects connect speed 16800bps
&P0*	US setting for off-hook (make) to on-hook (break) ratio	*N8	Selects connect speed 19200bps
&P1	UK and Hong Kong setting for off-hook to on-hook ratio	*N9	Selects connect speed 21600bps
&Rn	Clear To Send (CTS) Signal Selection	*N10	Selects connect speed 24000bps
&R0	Modem turns on the Clear To Send signal when it detects the Request To Send (RTS) signal from host.	*N11	Selects connect speed 26400bps
&R1	Modem ignores the Request To Send signal and turns on its Clear To Send signal when ready to receive data.	*N12	Selects connect speed 28800bps
&R2*	Clear To Send force on.	*N13	Selects connect speed 31200bps
&Sn	Data Set Ready (DSR) Signal Selection	*N14*	Selects connect speed 33600bps
&S0*	Data Set Ready is forced on	*N15	Selects connect speed 1200/75bps
&S1	Data Set Ready to operate according to RS-232 specification	*N16	Selects connect speed 300bps (V.21)
&Tn	Test Selection	*N17	Selects connect speed 300bps (Bell 103)
&T0*	Terminates test in progress	*Pn	User Abort Selection
&T1	Performs Local Analog Loopback Test	*P0*	Enables user abort feature
&V	Configuration Profile Display Selection	*P1	Disables user abort feature
&Wn	Active Configuration Profile Store Selection	*Qn	Auto Retrain Selection
&W0*	Stores active configuration profile in configuration profile 0.	*Q0	Disables auto retrain
&W1	Stores active configuration profile in configuration profile 1.	*Q1*	Enables auto retrain
		*Tn	Trellis Coding Selection
		*T0	Disables Trellis coding
		T1	Enables Trellis coding
		*Xn	Transmission Level Selection
		X0	Selects output level -11dBm
		*X1	Selects output level -12dBm
		*X2	Selects output level -13dBm
		*X3	Selects output level -14dBm
		*X4	Selects output level -15dBm
		*X5	Selects output level -16dBm
		*X6	Selects output level -17dBm
		*X7	Selects output level -18dBm
		*X8	Selects output level -19dBm
		*X9	Selects output level -20dBm
		*X10	Selects output level -21dBm
		*X11	Selects output level -22dBm

*X12 Selects output level -23dBm

V.42bis / MNP Command Set

%An Set Auto-Reliable Fall Back Character
Set auto-reliable fall back character to n (n = 0 to 127).

\An MNP Block Size Selection
\A0 Selected 64-character maximum block size
\A1 Selected 128-character maximum block size
\A2 Selected 192-character maximum block size
\A3* Selected 256-character maximum block size

\Bn Set Line Break
Send a n/10 seconds line break to the modem (n = 0 to 9). Default = 3. Break length always 300 msec for MNP mode.

*X13 Selects output level -24dBm

%Cn Data Compression
%C0 Disables data compression
%C1* Enables data compression

\En Normal Mode Data Echo Selection
\E0* Disables data echo during a normal link
\E1 Enables data echo during a normal link

\Jn DTE Baud Rate Adjustment Selection
\J0* Disables DTE rate adjustment. DTE rate is constant regardless of data link speed
\J1 Enables DTE rate adjustment. DTE matches data link speed

*X14 Selects output level -25dBm

\Kn Break Control Selection
\K0 Enters the Command Mode, but does not send a Break to remote modem. (To send a Break after use the \B command).
\K1 Empty data buffers and immediately sends a Break to remote.
\K2 Same as AT\K0.
\K3 Immediately send a Break.
\K4 Same as AT\K0.
\K5* Send a Break in sequence with any data received from host.

\Nn Data Link Selection
\N0 Selects Normal data link
\N1 Selects Direct data link
\N2 Selects MNP Reliable link only
\N3 Selects MNP Auto-reliable link
\N4 Selects V.42 reliable link with phase detection
\N5* Selects V.42 auto-reliable link with phase detection
\N6 Selects V.42 reliable link without phase detection
\N7 Selects V.42 auto-reliable link without phase detection

*X15 Selects output level -26dBm

\Qn Flow Control Selection
\Q0 Disables flow control
\Q1 Selects XON\XOFF in-band flow control
\Q2 Selects CTS hardware flow control
\Q3* Selects RTS\CTS hardware flow control

\Tn Set Inactive Timer
Set inactivity timer to n minutes (n = 0 to 90).
Default = 0.

\Vn V42/MNP Extended Response Selection
\V0 Disables V42/MNP extended responses
\V1* Enables V42/MNP extended responses

\Xn XON\XOFF Pass-through Selection
\X0* Process XON\XOFF and don't pass through
\X1 Processes XON\XOFF and pass through

Wn DTE/DCE Speed Response Selection
W0 Display DCE connection rate
W1* Display DTE connection rate

&Kn Flow Control Selection
&K0 Disable Local flow control
&K3* Selects RTS\CTS hardware flow control
&K4 Selects XON\XOFF in-band flow control
&K5 Selects Transparent XON\XOFF in-band flow control

&Mn Data Connection Selection
&M0 Selects Direct data link
&M5* Instructs the modem to make a data connection using V.42 standard